


AQS Historical Data

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Archived and Other Detailed AQS Data



System Overview

- Software
- Manuals and Guides
- Precision and Accuracy Reporting System (PARS)
- Frequently Asked Questions
- Memos
- User Registration
- Training
- AQS Conference
- Archived and Other AQS Data
- AQS Mainframe System (Inactive)
- Technical Forum
- Contacts
- Related Links

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Technology Transfer Network Air Quality System

[Recent Additions](#) | [Contact Us](#) | [Print Version](#) Search: **GO**


[EPA Home](#) > [TTN](#) > [AQS](#) > Archived Data


Archived Data and Other AQS Data Files

This purpose of this web page is to assist those who want to obtain files of the very detailed ambient air quality data (e.g., hourly measurements) from AQS for analysis.

NOTE: If you are interested in only summary information (e.g., daily or yearly means, or peak concentrations), it is available elsewhere. Summary data are accessible to the public from the [AirData](#) web area. Unless you are doing detailed analysis of the data, summary data will likely meet your needs.

Detailed data are categorized into 1) data from the **mainframe AQS** and 2) data from the **client/server AQS**. Please review the tables below to see if one or more of these data files meets your data needs. New files may be added from time to time and some files, especially for the more current years, may be updated from time to time. The date of retrieval for each file is noted in the table along with the file name and size.

Client/Server AQS: Files from the client/server version of AQS are usually in the same format as the "[input transaction format](#)"  for raw data, i.e., Transaction Type = RD. Separate files for various pollutants are available, e.g., one file contains PM Fine Speciation data for the nation for 2000. In some cases, one year of data for a pollutant is split into multiple files, e.g., 4 files are used to provide hourly Ozone data in 2002 for the nation.


Mainframe AQS: Files from the mainframe version of AQS follow a different format which is described in the "[raw data conversion card image](#)"  file.

AQS historical data (i.e., before 1993) has been archived in a separate database managed by the Information Management Group (IMG) at the US EPA. Local, tribal, state, and EPA regional staff in need of data earlier than 1993 that is not available below should use the [AQS E-mail request form](#). (If your web browser does not allow the use of forms, please send a detailed email to Virginia Ambrose at ambrose.virginia@epa.gov.) Customized responses will be prepared in response to requests for specific data. Our goal is to respond to most requests within 2 business days of receipt. Responses to very large data requests may take longer.

Requests from the public for AQS data not otherwise available may be made through the US EPA Agency Freedom of Information Office (<http://www.epa.gov/foia/>).


Please be aware that these are generally very large files. All files are zipped to conserve disk space. Use a utility such as WINZIP to unzip these files. Once unzipped, the files are regular text files (*.txt) and should be readable with a word processing, spreadsheet, database, or statistical analysis program.

Raw Data retrieved from the Client/Server AQS

Unless otherwise indicated, files unzip to text files in the [input transaction format](#)  for raw data, i.e., Transaction Type = RD. All data reported for the US plus any data reported for Canada and Mexico is included unless otherwise indicated. (Canada is indicated by "CC" in the state code field; Mexico is "80".)

Pollutant (code) -Interval		Year(s)	File Name - Zipped Size (Unzipped Size)	Date Retrieved
PM 2.5 - Continuous (88101) - hourly		2001	PM25_Continuous_2001.zip 6,248KB (92,908KB)	3/5/03
PM 2.5 - Local Conditions (88101) - daily ¹		1999-2001	PMfineDaily19992001.zip ¹ data was pulled on 9/26/02 2,382KB (unzips to 3 files with total of 26,095KB)	10/4/02
PM Fine Speciation Data - all states		2001	PMfineSpeciation2001.zip 2,537KB (39,663KB)	10/23/02
	State codes 01 - 19 ²	2001	PMfineSpec2001-st01-19.zip 685KB (9,240KB)	10/23/02
	State codes 20 - 29 ²	2001	PMfineSpec2001-st20-29.zip 492KB (7,262KB)	10/23/02
	State codes 30 - 39 ²	2001	PMfineSpec2001-st30-39.zip 356KB (5,051KB)	10/23/02
	State codes 39+ ²	2001	PMfineSpec2001-st30+.zip 1,006KB (18,111KB)	10/23/02
PM Fine Speciation Data		2000	PMfineSpeciation2000.zip 993KB (12,894KB)	10/16/02
Ozone (44201) - hourly States in regions 1, 2 & 3		2002	ozone-h-reg1-3-2002.zip 5,880KB (89,396KB)	3/27/03
Ozone (44201) - hourly States in regions 4 & 5		2002	ozone-h-reg4-5-2002.zip 12,617KB (185,003KB)	3/27/03
Ozone (44201) - hourly States in regions 6, 7, & 8		2002	ozone-h-reg6-8-2002.zip 7,685KB (117,042KB)	3/27/03
Ozone (44201) - hourly States in regions 9, 10, & 25		2002	ozone-h-reg9-25-2002.zip 9,080KB (134,515KB)	3/27/03
Ozone (44201) - hourly		2001	N-rd-ozone-h-2001.zip 33,210KB (527,021KB)	9/23/02
Ozone (44201) - hourly		2000	N-rd-ozone-h-2000.zip 32,197KB (512,091KB)	9/23/02
Ozone (44201) - hourly		1999	N-rd-ozone-h-1999.zip 31,362KB (497,867KB)	9/23/02
Ozone (44201) - hourly		1996	N-rd-ozone-h-1996.zip 30,883KB (459,462KB)	9/23/02
Ozone (44201) - hourly		1995	N-rd-ozone-h-1995.zip 16,811KB (274,267KB)	11/18/02


¹ The format for the PM 2.5 (88101) comma delimited files is: State Code, County Code, Site ID, Parameter, POC, Method, Unit, Sample Duration, Date (YYYYMMDD), Start Time (Hour), Sample Value, Qualifier-1, Qualifier-2, Qualifier-3, Qualifier-4, Qualifier-5, Qualifier-6, Qualifier-7, Qualifier-8, Qualifier-9, Qualifier-10
Naming convention for these files after unzipping: p(parameter)y(year)d(datefilecreated).txt

² State codes may be found in [StateCountyCodes](#) 

³ [States listed by Region](#)

Archived and Other Detailed AQS Data, cont'd

Raw Data retrieved from the Mainframe AQS

These text files are in the format used in the mainframe version of AQS shown in [Description of raw data format used in AQS mainframe version](#) 

Pollutant (code) - Interval	Year(s)	File Name - Zipped Size (Unzipped Size)	Date Retrieved
Ozone (44201) - hourly (also in Client/Server AQS table above)	2000	rd ozone2000.zip 10,573KB (73,021KB)	6/24/02
Ozone (44201) - hourly (1999 & 1996 are also in Client/Server AQS table above)	1995-1999	rd ozone1995-1999.zip 49,367KB (344,360KB)	6/24/02
Ozone (44201) - hourly	1990-1994	rd ozone1990-1994.zip 45,347KB (309,481KB)	6/24/02
Ozone (44201) - hourly	1985-1989	rd ozone1985-1989.zip 36,118KB (268,417KB)	6/24/02
Ozone (44201) - hourly	1980-1984	rd ozone1980-1984.zip 35,323KB (296,415KB)	6/24/02
Ozone (44201) - hourly	1975-1979	rd ozone1975-1979.zip 20,150KB (195,732KB)	6/24/02
Ozone (44201) - hourly	1970-1974	rd ozone1970-1974.zip 3,126KB (31,173KB)	6/24/02
PM 10 (81102) - hourly	1981-2000	rd pm10h1981-2000.zip 11,548KB (63,485KB)	6/13/02
PM 10 (81102) - daily	2000	rd pm10d2000.zip 476KB (7,322KB)	6/12/02
PM 10 (81102) - daily	1990-1999	rd pm10d1990-1999.zip 5,822KB (91,976KB)	6/12/02
PM 10 (81102) - daily	1980-1989	rd pm10d1980-1989.zip 1,490KB (22,285KB)	6/12/02
PM 2.5 (88101) - hourly (overlaps file from "new" AQS in table below)	1990-2000	rd pm25h1990-2000.zip 1,987KB (10,404KB)	6/13/02
PM 2.5 (88101) - daily	1990-1999	rd pm25d1990-2000.zip 1,507KB (20,956KB)	6/12/02
Sulfur Dioxide (42401) - hourly	2000	rd so2h2000.zip 5,106KB (48,376KB)	6/13/02
Sulfur Dioxide (42401) - hourly	1998-1999	rd so2h1998-1999.zip 11,234 (104,920KB)	6/13/02
Sulfur Dioxide (42401) - hourly	1995-1997	rd so2h1995-1997.zip 18,046KB (171,306KB)	6/13/02
Sulfur Dioxide (42401) - hourly	1993-1994	rd so2h1993-1994.zip 12,813KB (116,477KB)	6/13/02
Sulfur Dioxide (42401) - hourly	1990-1992	rd so2h1990-1992.zip 20,096KB (184,786KB)	6/13/02
Sulfur Dioxide (42401) - hourly	1985-1989	rd so2h1985-1989.zip 37,620KB (352,228KB)	6/13/02
Sulfur Dioxide (42401) - hourly	1983-1984	rd so2h1983-1984.zip 18,156KB (176,820KB)	6/13/02
Sulfur Dioxide (42401) - hourly	1980-1982	rd so2h1980-1982.zip 25,564KB (260,307KB)	6/13/02
Sulfur Dioxide (42401) - hourly	1975-1979	rd so2h1975-1979.zip 30,105KB (361,376KB)	6/13/02
Sulfur Dioxide (42401) - hourly	1970-1974	rd so2h1970-1974.zip 10,021KB (130,848KB)	6/13/02

Archived and Other Detailed AQS Data, cont'd


Nitrogen Dioxide (42602) - daily	1990-1999	rdno2d1990-1999.zip 50KB (897KB)	6/11/02
Nitrogen Dioxide (42602) - daily	1980-1989	rdno2d1980-1989.zip 399KB (5,962KB)	6/11/02
Nitrogen Dioxide (42602) - daily	1970-1979	rdno2d1970-1979.zip 1,904KB (28,170KB)	6/11/02
Nitrogen Dioxide (42602) - hourly	2000	rdno2h2000.zip 4,804KB (33,735KB)	6/12/02
Nitrogen Dioxide (42602) - hourly	1990-1999	rdno2h1990-1999.zip 19,046KB (143,520KB)	6/12/02
Nitrogen Dioxide (42602) - hourly	1980-1999	rdno2h1980-1989.zip 29,033KB (247,798KB)	6/12/02
Nitrogen Dioxide (42602) - hourly	1970-1999	rdno2h1970-1979.zip 15,143KB (144,307KB)	6/12/02
Carbon Monoxide (42101) -hourly	2000	rdco2000.zip 4,753KB (40,461KB)	6/27/02
Carbon Monoxide (42101) -hourly	1995-1999	rdco1995-1999.zip 26,598KB (214,878KB)	6/12/02
Carbon Monoxide (42101) -hourly	1990-1994	rdco1990-1994.zip 25,242KB (208,804KB)	6/12/02
Carbon Monoxide (42101) -hourly	1985-1989	rdco1985-1989.zip 23,102KB (197,590KB)	6/27/02
Carbon Monoxide (42101) -hourly	1980-1984	rdco1980-1984.zip 23,288KB (214,202KB)	6/27/02
Carbon Monoxide (42101) -hourly	1970-1979	rdco1970-1979.zip 26,905KB (239,578KB)	6/11/02

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www.epa.gov/ttn/airs/airsaqs/

E-Mail Form to Request Historical Data



System Overview
Software
Manuals and Guides
Precision and Accuracy Reporting System (PARS)
Frequently Asked Questions
Memos
User Registration
Training
AQS Conference
Archived and Other AQS Data
AQS Mainframe System (Inactive)
Technical Forum
Contacts
Related Links

U.S. Environmental Protection Agency
Technology Transfer Network - Air Quality System (AQS)

[Recent Additions](#) | [Contact Us](#) | [Print Version](#) Search:

[EPA Home](#) > [Technology Transfer Network](#) > [AQS](#) > [Archived & Other DATA](#) > Request for Historical Data

Request for Historical Raw Data from AQS

Raw data (daily, hourly, and sub-hourly) and Composite data over 10 years old is only available by special request from the archival database. Please use this form to submit your request.

Prior to making this request, please be sure the information you really need is not available in the summary data information available on the AQSPROD database.

Please provide the following required contact information:

First Name

Last Name

Organization

Work Phone

FAX

E-mail

Enter the beginning and ending dates for the data you want... :

-- mm/dd/yy -- mm/dd/yy

State abbreviation:

County code: Site(s) (within county):

County code: Site(s) (within county):

County code: Site(s) (within county):

Do you want:

☐ Specific Pollutant(s):

☐ All Criteria Pollutants

11101 Suspended Particulate (TSP)
12128 Lead (TSP)
42101 Carbon Monoxide
42401 Sulfur Dioxide
42602 Nitrogen Dioxide
44201 Ozone
81102 PM10 Total 0-10um
88101 PM2.5 - Local Conditions

E-Mail Form to Request Historical Data, cont'd

Do you want:

☐ Specific Pollutant(s):

☐ All Criteria Pollutants

11101 Suspended Particulate (TSP)
12128 Lead (TSP)
42101 Carbon Monoxide
42401 Sulfur Dioxide
42602 Nitrogen Dioxide
44201 Ozone
81102 PM10 Total 0-10um
88101 PM2.5 - Local Conditions

☐ HAPS only (Hazardous Air pollutants)

☐ MET only (Meteorological pollutants)

☐ PAMS only (Photochemical Assessment Monitoring Stations)

☐ PAMS VOC only (PAMS Volatile Organic Compounds)

How would you like this data returned to you?

E-mailed to me

Other information related to your request: